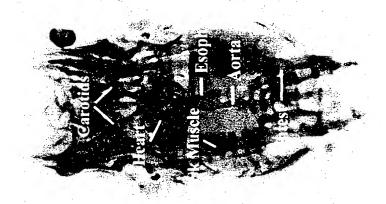
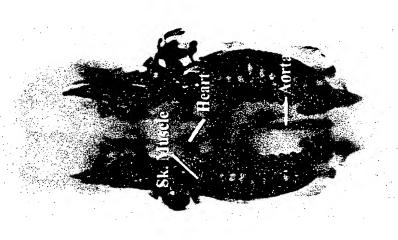
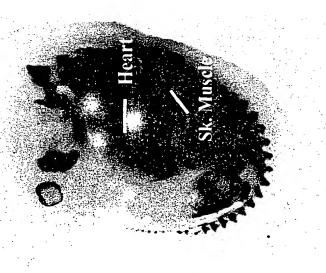


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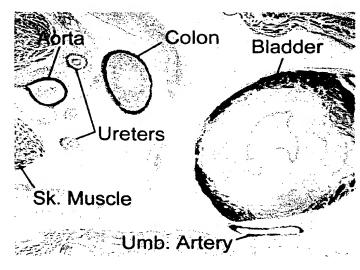


FIG.3A

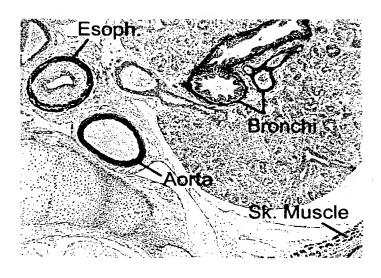


FIG.3B

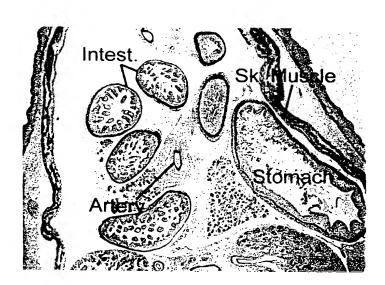
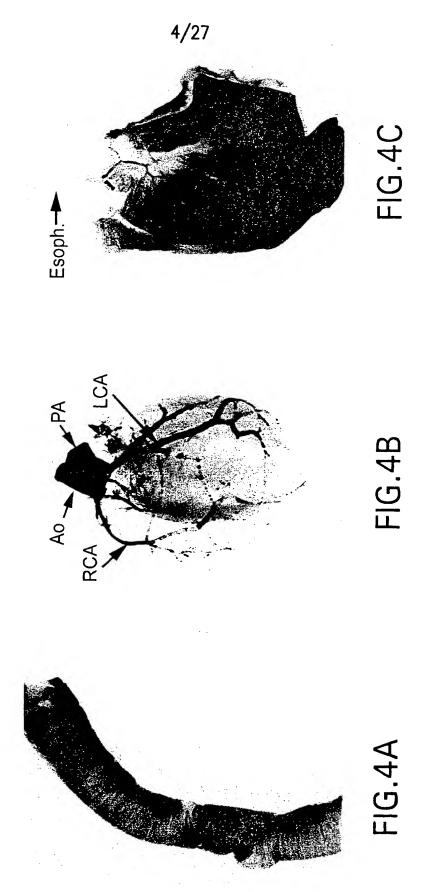
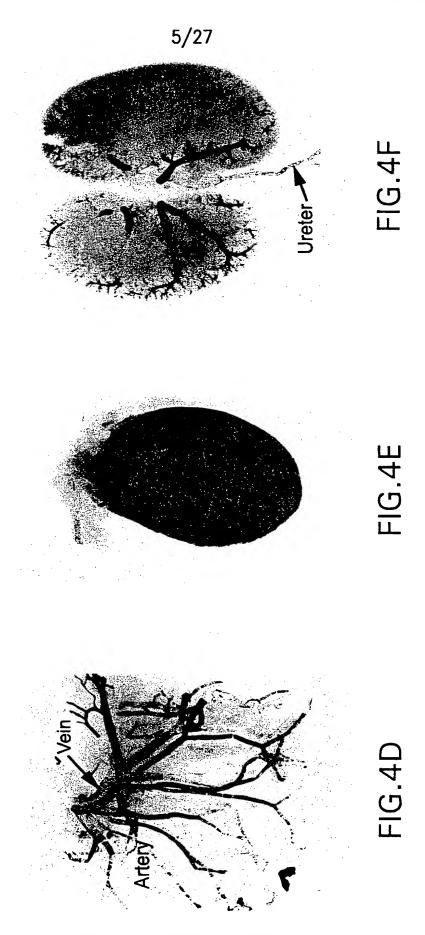


FIG.3C



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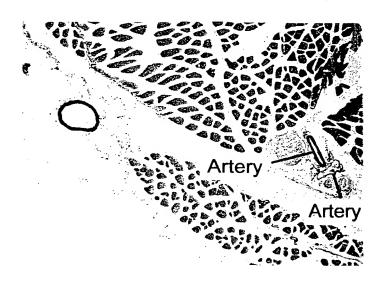


FIG.5A

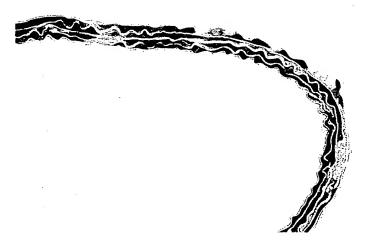


FIG.5B

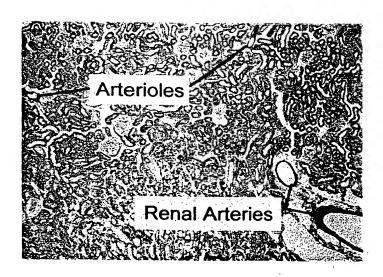
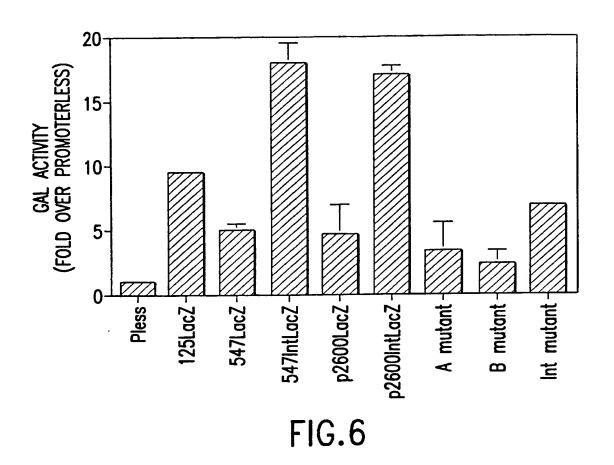
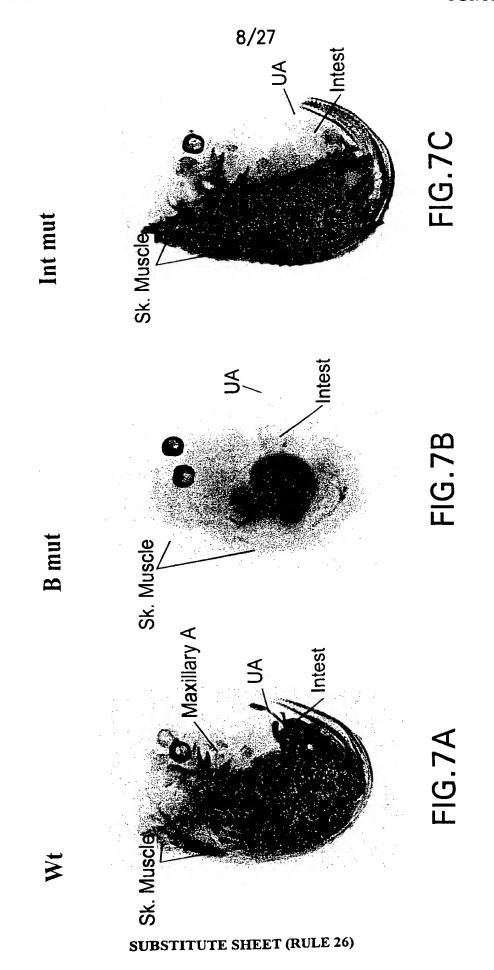
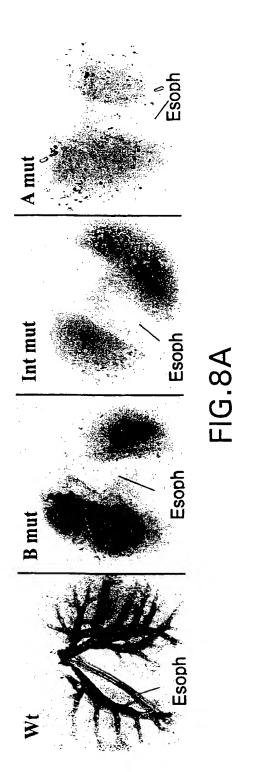
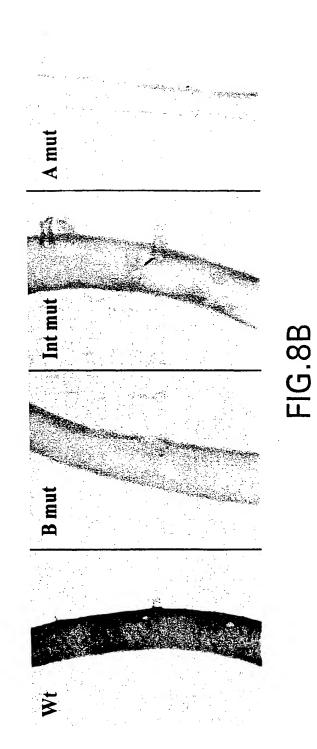


FIG.5C

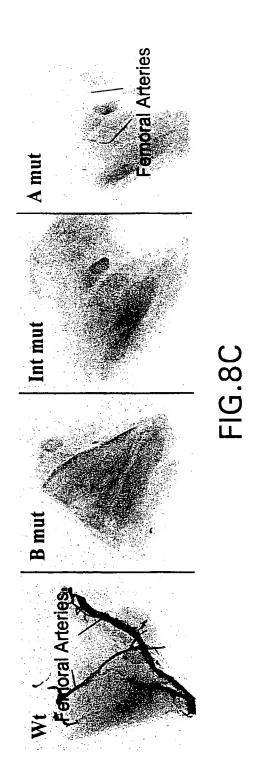




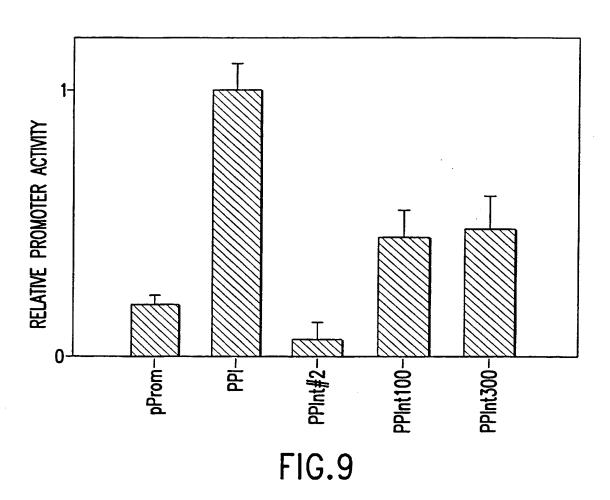


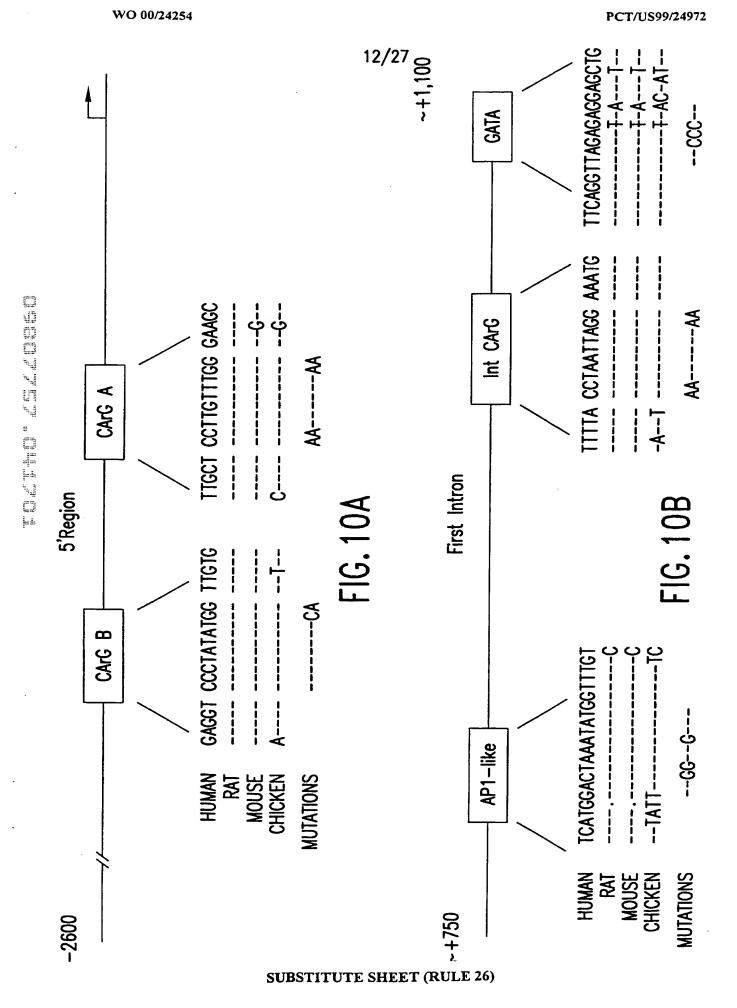


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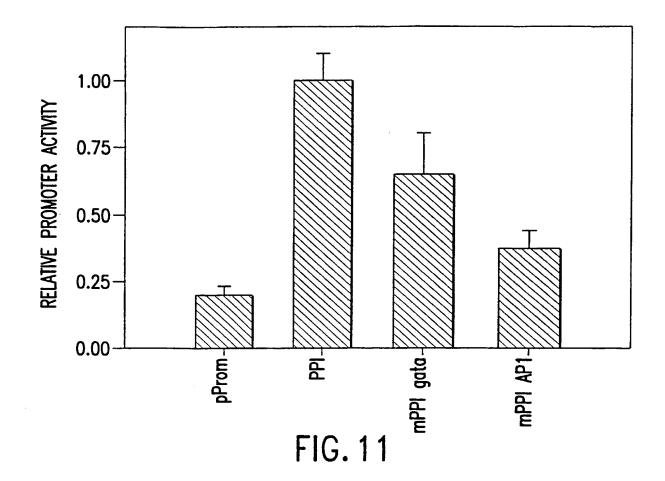


SUBSTITUTE SHEET (RULE 26)









	1				50
human			~~~~~~~	~AGAGAGCAA	
rat	ACACCATAAA	ACAACTCCAT		AGCGTGAGTA	
mouse	ACACCATAAA	ACAAGTGCAT	GAGCCGIGGG	AGCGTGAGTC	GACAGCIGCI
chicken	~~~~~~~	~~~~~~		~~~~~~~	
	51				100
human	GGAAAACTGC	CTTATAAAAC	CATCAGATAT	CGTGAGAACT	CACTCACTTT
rat	GGCATTCACC	CTGGGCTTTC	CCTGACATGC	CAACAGTTCA	GAGCCACT.T
mouse	GCCATTCACC	CTGGGGTTTC	CCTAACATGT	GCACAGTTCA	GAAGCACTCC
chicken	~~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~	*****
	101				150
human		GCATGGTATA	AAACGCCCCC	ATCGATCCAG	
rat		CTAAAATATC			
mouse		CCAAAATATC			
chicken		GGCTTTTTGA			
	151				200
human	CCATGCCTTT	CTCTGGACAT	GGGATTA	TGGAGATTAG	AATTCGAGAC
rat	TGCAGGAGGG	AAGTAGAGAA	AGGTAAAGTC	GTTGACTGTC	CATTGAAGCC
mouse		AAGTACAGAA			
chicken	ATGCTAATTT	CTGATCTCTA	GTAGTAGTTC	AAGGGCAATG	TATTGTTACT
	201				250
human		TGGGGACGTA	GAACCAAACC	ATATCACCTG	
rat		TGATGTCTTT			
mouse		TGCCTTTGAA			
chicken		TGCTCATGAG			
	251				300
human		GTCAAGGAGG			
rat		GTCCAGTGGG			·
mouse		GTCCAGTGGG			
chicken	AGCCAAATAA	ATCCAGTCCT	CTGA.AAATA	GCTCATACAT	TGAGAACCTT

FIG.12A

	301				350
human		CAATCTCCTT	TCTTTTCCAA	AC	TACTTCTTTG
rat				T	
mouse	TCATTTCAAC	ATTTCAAATT	TCTTTTACAA	AGTTTTTTT	TTTTTTTATG
chicken	TGCTTTAGTT	GCTAAAAATA	TGCTCAGGGC	AAAGCTAGCT	AGAGGTTATG
					•
	351				400
human				GGATGGTCCC	
rat				AGACGGTCCT	
mouse				GGATGGTCCT	
chicken	AAATTCAGCA	ACTITATTAT	GAATGTTTTG	AGATAGGAGT	TTACAACTTG
	401				450
human				AAAGCTAATG	
rat				CACGTGGACT	
mouse				CGGAATG	
chicken	TGTCCATCAG	TGGAATTGAC	ACTAGGATGA	AGCTTGTCCA	CAGTTCCTAG
					500
	451				500
human	ATGAATGTAG			AAATTCCTCT	TTGTAAGACA
human rat	ATGAATGTAG GTTAACGCAG	TTACAGTGAT	TCTGACTTCT	AAGTTCCTCT	TTGTAAGACA TAGGGTAACA
rat mouse	ATGAATGTAG GTTAACGCAG GTTAAAGCAG	TTACAGTGAT TTACAGTGAT	TCTGACTTCT TCTGACTTCT	AAGTTCCTCT AAGTTACTCT	TTGTAAGACA TAGGGTAACA TTGGGCAACA
rat	ATGAATGTAG GTTAACGCAG GTTAAAGCAG	TTACAGTGAT TTACAGTGAT	TCTGACTTCT TCTGACTTCT	AAGTTCCTCT	TTGTAAGACA TAGGGTAACA TTGGGCAACA
rat mouse	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA	TTACAGTGAT TTACAGTGAT	TCTGACTTCT TCTGACTTCT	AAGTTCCTCT AAGTTACTCT	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC
rat mouse chicken	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA 501	TTACAGTGAT TTACAGTGAT ATAAACTGAT	TCTGACTTCT TCTGACTTCT GGAGACAGGA	AAGTTCCTCT AAGTTACTCT TATTGATTGT	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC 550
rat mouse chicken human	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA 501 TAGGCCTGTC	TTACAGTGAT TTACAGTGAT ATAAACTGAT AACCTTGTCT	TCTGACTTCT TCTGACTTCT GGAGACAGGA CCATACTTC.	AAGTTCCTCT AAGTTACTCT TATTGATTGT	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT
rat mouse chicken human rat	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG	TTACAGTGAT TTACAGTGAT ATAAACTGAT AACCTTGTCT AATCCTGATT	TCTGACTTCT TCTGACTTCT GGAGACAGGA CCATACTTC. ACATACTTCC	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT
rat mouse chicken human rat mouse	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT	TTACAGTGAT TTACAGTGAT ATAAACTGAT AACCTTGTCT AATCCTGATT AATCCTCACT	TCTGACTTCT TCTGACTTCT GGAGACAGGA CCATACTTC. ACATACTTCC ACATACTTC.	AAGTTCCTCT AAGTTACTCT TATTGATTGTA ATATGTAATAA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT
rat mouse chicken human rat	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT	TTACAGTGAT TTACAGTGAT ATAAACTGAT AACCTTGTCT AATCCTGATT AATCCTCACT	TCTGACTTCT TCTGACTTCT GGAGACAGGA CCATACTTC. ACATACTTCC ACATACTTC.	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT
rat mouse chicken human rat mouse	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT AGGCTAGGGG	TTACAGTGAT TTACAGTGAT ATAAACTGAT AACCTTGTCT AATCCTGATT AATCCTCACT	TCTGACTTCT TCTGACTTCT GGAGACAGGA CCATACTTC. ACATACTTCC ACATACTTC.	AAGTTCCTCT AAGTTACTCT TATTGATTGTA ATATGTAATAA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT
rat mouse chicken human rat mouse chicken	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT AGGCTAGGGG  551	TTACAGTGAT TTACAGTGAT ATAAACTGAT  AACCTTGTCT AATCCTGATT AATCCTCACT CACCATAACA	TCTGACTTCT TCTGACTTCT GGAGACAGGA  CCATACTTC. ACATACTTCC ACATACTTCC ACATACTTCC ACATACTTCC	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATAA AGAACGTTTA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT CACAGCCTTC  600
rat mouse chicken human rat mouse chicken	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT AGGCTAGGGG  551 CCA.CTCACC	TTACAGTGAT TTACAGTGAT ATAAACTGAT  AACCTTGTCT AATCCTGATT AATCCTCACT CACCATAACA  TCCCTCAAGA	TCTGACTTCT TCTGACTTCT GGAGACAGGA  CCATACTTC. ACATACTTCC ACATACTTCC ACATACTTCACACATACTTCACACACA	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATAA AGAACGTTTA	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT CACAGCCTTC  600 GTGCCTACCA
rat mouse chicken human rat mouse chicken human rat	ATGAATGTAG GTTAACGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT AGGCTAGGGG  551 CCA.CTCACC TCA.TTGATA	TTACAGTGAT TTACAGTGAT ATAAACTGAT  AACCTTGTCT AATCCTGATT AATCCTCACT CACCATAACA  TCCCTCAAGA CTACACACAG	TCTGACTTCT TCTGACTTCT GGAGACAGGA  CCATACTTC. ACATACTTCC ACATACTTCC ACATACTTCC ACCTGTTAGC  ACTTGATTTA ACTCCA.GAC	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATAA AGAACGTTTA  TAAACAGT TACATACAAT	TTGTAAGACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT CACAGCCTTC  600 GTGCCTACCA GTGGCTTCCA
rat mouse chicken human rat mouse chicken	ATGAATGTAG GTTAACGCAG GTTAAAGCAG GTTAAAGCAG TGCTTTGGAA  501 TAGGCCTGTC TAGGCTGGTG CAGGCTGGTT AGGCTAGGGG  551 CCA.CTCACC TCA.TTGATA TCA.TTACTA	TTACAGTGAT TTACAGTGAT ATAAACTGAT  AACCTTGTCT AATCCTGATT AATCCTCACT CACCATAACA  TCCCTCAAGA CTACACACAG CAACACAAAG	TCTGACTTCT TCTGACTTCT GGAGACAGGA  CCATACTTC. ACATACTTCC ACATACTTCC ACATACTTCA ACCTGTTAGC  ACTTGATTTA ACTCCA.GAC ACACAATGTA	AAGTTCCTCT AAGTTACTCT TATTGATTGT A ATATGTAATAA AGAACGTTTA  TAAACAGT TACATACAAT	TTGTAAGACA TAGGGTAACA TAGGGTAACA TTGGGCAACA CACCCATTAC  550 ATTCCTATTT CATACAGACT GTTCCTGGTT CACAGCCTTC  600 GTGCCTACCA GTGGCTTCCA GTAGCTTCCA

# FIG.12B

human rat mouse chicken	TAAAATCATC ACTCCCTCTA TGTATTTATA GACGACTGAA GGAATATCTT TAAAATGATC ACT.CCTCTG CAGATTCGCA GGTGAC.CCA AGCATCT.TT TAAAAACATG ACT.CCTCTG CATATTTATG GGTGACTCGA AGCATCT.TT CCCAAGTGCA GACCTTTTAA GTGAATTTGT GGCAAAATTC AGTAGCTGTT
human rat mouse chicken	651 700 TCTTCTTTGC ATGCTACCGT GGTAGAAGGA TTTTAAAAGT CCATGCTAGG TGTTATAGGC TACCTTTTGC AACAG.TGTT GCCTTAAAGT CCCAGCTAGT TGATCTAGGC TACCTTTTGC AACAG.TGTT GCTTAAAAAT CGCAGCTAGT TAGCTTGCCG AAAGTATTCT CATTGCTTTG GTCCAAATCT TTAACAAATG
human rat mouse chicken	701 750 CAGAGGCAGC CCTTTCTGCC CCTTTCTGTT CTCAGTTTAT TAGGAAATAG CAGAGACAGGC CCTTCCTCAT CTCAAGCCCT TAGCTAATGG CAGAGACAGGC CCTTCCTTAT C.CAAGTCCT CAGCTAATGG CAAAGTGTCT CCTTAAAAAC ACTTTCCCTA TTACAAATGA CTGCTCTTTC
human rat mouse chicken	751 800 CCTGAAATTC CAGCATGATA GCAACTGGCATC CGTCTGTGAA ACCCAAAGGC TAGCCTGACA GGAAGAGCTGGCATC TTCTGAGGAA CCCAAAAGAC TAGCCTGACA GGGGCTGGCATC TTCTGAGGAA AGTTTTCACT CTGCCTCTTG GATGTTCCTG TGAAGGCCAG GGCCTCTCTC
human rat mouse chicken	801 TGTGCAAACC ATGCCTGCAT CTGCCCATTA CCCGTAGCTC AGTGTCTCTG TGTGCAAACC ATGCCTGCGT CTGCTTCATG ACACTAGCCC AGTGTCTG TGTGCAAACC GTGCCTGCGT CTGTCCCATG ACACTAGCCC AGTGTCTG TCTTGTTTGA ACGTGTGCTC TTCCTGACAG AGGGTGTCTG TCCCAGGCAC
human rat mouse chicken	900 GGCATTTCTG CAGTTGTTCT GAAGGCTTGG CGTGTTTATC TCCCACAGGC GGCATTTGAG CAGTTGTTCT GAGGGCTCAG GATGTTTATC CCCATAAGCA GGCATTTAAG CAGTTGTTCT GAGGGCTTAG GATGTTTATC CCCATAACGA GCTTTTCTTG CTGCATTTTA GCAAGTTCTG CAGTGTTTAT CTTACACAGC

FIG.12C

	901				950	
human	GGCTGAACCG	CTCCCGTTTC	ATGAGCAGAC	CAGTGGAATG	CAGTGGAAGA	
rat	GCTGAACTGC	CTCCTGTTTC	GAGAGCAGAG	CAGAGGAATG	CAGTGGAAGA	
mouse	GCTGAGCTGC	CTCCTGTTTC	GGGAGCAGAA	CAGAGGAATG	CAGTGGAAGA	
chicken	TGAAAGTCTC	CTCCTGTTTC	ATGAGCTCTG	CGTTGGAATG	CAGTGGAAGG	
CHICKEH	Turvia i Ci C	7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	951				1000	CArG B
human	GACCCAGGCC	TCCGGC AC	CAGATTAGAG	AGTTTTGTGC	TGAGGTCCCT	
rat	GACCCAGGCC	TOTGGCCACC	CAGATTAGAG	AGTTTTGTGC	TGAGGTICCCT	
mouse	GACCCA.GCC	TCTGGCCACC	CAGATTAGAG	AGTTTTGTGC	TGAGGTCCCT	
chicken	GACTGAGGGC	CTGTCGACC	CAGATTAGAG	GTTTTTGTAA	TAAGGTCCCT	
CHICKEH	GAC TGAGGGC	.crarea.co	0,10,1,1,10,10		<u> </u>	
	1001				1050	CArG A
human	ATATCOLIGI	GTTAGACTGA	ACGACAGGCT	CAAGTCTGTC	ПТСТССТТ	
rat	ATATGGITGT	GTTAGAGTGA	ACGGCCAGCT	TCAGCCTGTC	TTTGCTCCTT	
	ATATEGITET	GTTAGAGTGA	ACGGCCAGCT	TCAGCCCGTC	TTTGCTCCTT	
mouse chicken	ATATCCITT	GTTAGAGACT	TOGGOTOTGT	CTCTCTCATC	TCTGCTCCTT	
Chicken	ATATGGTTTT	di indhanoi	100001010.			
	1051				1100	
human	CTTTCCGAAG	CAAGTGGGAG	GAGAGCAGGC	CAA . GGGCTA	TATAACCCTT	
human rat	CTTTCCCAAG	CAAGTGGGAG	GGGATCAGAC	CAGGGGGCTA	TATAACCCTT	
	CTTTCCCACC	CCACTCCCAC	GGGATCAGAG	CAAGGGGCTA	TATAACCCTT	
mouse	CTTTCCCACC	CTCCTCCCAC	CAGAAGAGCT	GAAGGGGCTA	TATAACCCTG	
chicken	GITIGGGAGG	CIGGIGGAG	UAUAAUAUC;	a, vidada i i i	.,,	
	1101	1118				
la	CAGCTTTCAG					
human	CAGCITTCAG		EXON 1			
rat	CAGCATTCAG		LAUIT			
mouse						
chicken	GTGCTTTTGG	ATACAC~~				

FIG.12D

	1				50
human		CCAGGCCAAG	GATGTGACTT	ATAGATTCCA	GTGGCTCTTT
rat			GATGTGACTT		
mouse	GTAAGTAGCC		GATATGACTT		
chicken	~~~~~	~~~~~~		~~~~~~	~~~~~~
Cirronon					
	51				100
human	TAATTACCCG	<b>GTATAATAAG</b>	ACACCATCTG	CAGGGATTTG	GCTGGGTTCA
rat	TAATCATCCA	<b>GTGGAACCAG</b>	ACGTTGTCTG	TAGTAATCTG	AATGACTCAC
mouse			ACATTGTCTG		
chicken	GTA	AGTGGCACTG	AACCAATAGT	${\tt GGGATTTATA}$	GTTTTCTGGA
	101				150
human			AAGA.TTGTA		
rat			AAGATTTATG		
mouse			AAGATTTATA		
chicken	TGACTTTAAT	TAAGTAATGT	CACATGGAAG	CTATTCAGGA	GGATGTACTG
					200
	151				200
human			ACGTTAAAGA		
rat			GTATCTAAAC		. ACTAAAAAT
mouse			ACATCCGAAT		
chicken	CTATGCTGCA	GTTTGCTTAG	GCATTACTTA	CTAGAACTGA	ATIGGTAAAA
					250
	201	ATCATCCAAC	GGGTAGAGAA	CA ATATGAA	
human			AGGAGATGGA		
rat			AGGAGATGGA		
mouse			AGGAAATGGA		
chicken	TACTITCAAT	GICTACACTG	AGIIGIAIII	GITTAAAGC	ACTITION
	251				300
human		TCTGTAAAA	.TGTTCATCC	TAAACAAACA	GCCCAGATCT
rat			CTGTTTACAC		
mouse			CTGTTTACAC		
chicken			TTGCCGATTC		

# FIG.13A

human rat mouse chicken	CGCAGCCTAC CGCAGCGTAC	TACAGGTATG TATAGGGGAG TGTAGGGGTG CAGACTGTTT	AAGTCCAGCC GAGTCTAGCT	ATCTATGGTA GTATGTGGTA	AATTATAC.A AATTATAC.G
human rat mouse chicken	TTTGTTTCTA TTTGTTTCTA	TTTAGGCACT CTTAGGTGTT TTAGG TGGAGTTAGC	GGACACTTGT CAAAAGTTGG	GGATTTGTCT AAACTTTTGG	ATGGTTCA.G ATGTATCATG
human rat mouse chicken	ACTTAGTGTG ATGTAGCATG	GTTTTCTTTC AGGACTTTCC AGGTATTT CTGTGTAGTG	ATCTGACCG.	ACTA	CAGCCGGGTT CAGCTGAGGT
human rat mouse chicken	AACTGGAAGT AACTGGAAGT		GGAGTGAACT GGAATGAACT	GGCGCGGT GAGGTAGT	TGCCTGCGCT TGCCTGCTCT
human rat mouse chicken	CTGGTTTtGG CTGATGTTGG	CTGAATTTGT CTGAGTGGAC CTGAGTGGAC GCAAAATAGC	TGCGTTGCCT .GCATTGCTT	CTGGGTTTCC CTGGGTTTCC	GGGGCTCTAA GGGGCTCTAA
human rat mouse chicken	CAG GAGCTGGTGT	CTTTTGTTGGTAG CCTATGCTGG TGCTGTCTCG	ACATGTATAT AAATGTGTAT	CTT CTTGT	GACT

FIG.13B

	601				650
human		CCTTACAAGT	TTGGATCTAC	ATCATTGGTC	ATTTGCAGC.
rat				GTCATTGGTC	
mouse				GCCATTGGTC	
chicken				ACAGAGTTCC	
on one					
	651				700
human		AGGTGACCTG	CTGAATTTTT	CTCTGGAAAG	AAAGATTTAG
rat	AAAGCATA	G	CTCCTCTACT	CTCTGCAAAG	AAA
mouse				TTCTGCAAAG	
chicken				GGCTGGGGAA	
CITTORCIT	dararrarra	,0014			
	701				750
human		CTGCATCTGA	CAGCTGTGTG	TCCTCCCGGC	CGGATATCTG
rat				TCATTCGGGA	
mouse				TCATCCAGGG	
chicken				AGGCTAAATA	
CHICKEH	ulcillonai	41700100100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•
	751				800
human	751	CCTCAGCTTA	AAGCTCCCTT	CAGCCTGGTG	<del>-</del>
human	GTTGCATCTC			CAGCCTGGTG CTGGCCCCTT	AGGCAAGTGT
rat	GTTGCATCTC GA.TTGCGTT	TCTCTGCCTC	AAGTGTCCCT	CTGGCCCCTT	AGGCAAGTGT AG.
rat mouse	GTTGCATCTC GA.TTGCGTT GATTTGCATT	TCTCTGCCTC TCTCTGCCTC	AAGTGTCCCT ACGTGTCCCT	CTGGCCCCTT CAGCCGCTTA	AGGCAAGTGT AG. AGT
rat	GTTGCATCTC GA.TTGCGTT GATTTGCATT	TCTCTGCCTC TCTCTGCCTC	AAGTGTCCCT ACGTGTCCCT	CTGGCCCCTT	AGGCAAGTGT AG. AGT
rat mouse	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG	TCTCTGCCTC TCTCTGCCTC	AAGTGTCCCT ACGTGTCCCT	CTGGCCCCTT CAGCCGCTTA	AGGCAAGTGT AG. AGT CTTTTGCTGC
rat mouse chicken	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG 801	TCTCTGCCTC TCTCTGCCTC AATATGTCCT	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA	AGGCAAGTGT AG. AGT CTTTTGCTGC 850
rat mouse chicken human	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAG	TCTCTGCCTC TCTCTGCCTC AATATGTCCT CCAGCCCTGC	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA TGAGTTTCAC	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAA
rat mouse chicken human rat	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa	TCTCTGCCTC TCTCTGCCTC AATATGTCCT CCAGCCCTGC TCTCTGTGGG	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA TGAGTTTCAC	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG
rat mouse chicken human rat mouse	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA TGAGTTTCAC CAT	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG
rat mouse chicken human rat	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA TGAGTTTCAC	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG
rat mouse chicken human rat mouse	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA TGGAGGATGT	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA TGAGTTTCAC CAT	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG TGTAACTCAC
rat mouse chicken human rat mouse chicken	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA TGGAGGATGT	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC TACTACTGCA	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC CACCCCA TGCCATGGCA	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA  TGAGTTTCACC.T GTCCTTGAGC	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG TGTAACTCAC
rat mouse chicken human rat mouse chicken	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA TGGAGGATGT  851 GGTTTGGCAG	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC TACTACTGCA  CTTCAGCCCA	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC CACCCCA TGCCATGGCA G.ACTGGAGT	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA  TGAGTTTCACCAT GTCCTTGAGC  TTTCATGCTG	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG TGTAACTCAC  900 AGATTTTCCT
rat mouse chicken human rat mouse chicken	GTTGCATCTC GA.TTGCGTT GATTTGCATT TGCTGGGGTG  801 GACTGTGCAGGCAGAa ATCTGTGGAA TGGAGGATGT  851 GGTTTGGCAG GACTTGGTAA	TCTCTGCCTC TCTCTGCCTC AATATGTCCT  CCAGCCCTGC TCTCTGTGGG CCAGCCTTGC TACTACTGCA  CTTCAGCCCA CTTCTGCAGG	AAGTGTCCCT ACGTGTCCCT TTATTCTGCA CAACCCAGGC AGCCACC CACCCCA TGCCATGGCA G.ACTGGAGT GAAACGGAGT	CTGGCCCCTT CAGCCGCTTA GTGTGAGTGA  TGAGTTTCACC.T GTCCTTGAGC	AGGCAAGTGT AG. AGT CTTTTGCTGC  850 TGCAAATCAACACTCAG TGTAACTCAG TGTAACTCAC  900 AGATTTTCCT AGATTTTCCT

FIG.13C

	901				950	
human	AGCATTTTGT	GTTTCATGGA	CTAAATATGG	TTTGTGTTTC	AAGACCAATG	
rat	CCCcTTTTGT	GATTCAT.GA	CTAAATATGG	TTTGCGTTTT	GAGACTCACA	
mouse	CCTGTTTTGT	GATTCAT.GA	CTAAATATGG	TTTGC.ATTT	GAGACTCATA	
chicken	TTTTTG	TGCTCTATTA	CTAAATATGG	TTTTC.ATTA	GAGTCCTCCA	
CHIOKOL						
	951				1000	
human	AGCT_GGGAA	CTGTACTGTT	CTTTC	C	CCTCCCATCA	
rat	AACTGGGGAA	<b>GGTTACTGTC</b>	CTTTCCTCCT	CCCTCCCCTC	CCCTCTTACA	
mouse	AGCT . GGGAA	GGGTACTGTC	CTTTCCTCCC	TTCCCCCCTC	CCC.CCAACA	
chicken	AGCTAGAAA.	TGCAGCC	TTTTCCAGCT	CCCTCCTCTC	CCCTCCCCCA	
	1001				1050	
human	ACTCATTTTT	GGCACAAGAC	GCACTCTAGT	CAGTTGGAGC	AAACCCCT	
rat	ATTCATTTTT	GGCACAAGAT	GAGCTCCACT	GTGCTGCACC	AAACTCCCCG	
mouse	ATTCATTTTT	GGCACCAGAT	GAGCTCCACT	GGGCTGCACC	AAACTCCCCG	
chicken	AGTGATTTTT	GGCATTGCAT	TCTCTGCATT	G.GTTTGAGC	AAACCCCCTG	
					1100	
	1051			22422	1100	INTECNIC
human	GACCCGGGTG	CAGTTCCAAA	AGCAGACACT	CGAGC	GTGTTTTACC	INTRONIC
human rat	GACCCGGGTG GCCTCGGGTG	CAGTTCCAAA	AGCGGACGCT	GGAGCCCAGT	GTGTTTTACC GTGTTTTACC	INTRONIC CArG
	GACCCGGGTG GCCTCGGGTG	CAGTTCCAAA	AGCGGACGCT AGCAGAGGCT	GGAGCCCAGT GGAGCCCAGT	GTGTTTTACC GTGTTTTACC GTGTTTTACC	INTRONIC CArG
rat	GACCCGGGTG GCCTCGGGTG	CAGTTCCAAA	AGCGGACGCT AGCAGAGGCT	GGAGCCCAGT GGAGCCCAGT	GTGTTTTACC GTGTTTTACC GTGTTTTACC	INTRONIC CArg
rat mouse	GACCCGGGTG GCCTCGGGTG CCCCGGTG ACCTCGAACT	CAGTTCCAAA	AGCGGACGCT AGCAGAGGCT	GGAGCCCAGT GGAGCCCAGT	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC	INTRONIC CArG
rat mouse chicken	GACCCGGGTG GCCTCGGGTG CCCCGGTG ACCTCGAACT	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA	AGCGGACGCT AGCAGAGGCT AACAGACGGT	GGAGCCCAGT GGAGCCCAGT TGGAAA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150	INTRONIC CArG
rat mouse	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG	GGAGCCCAGT GGAGCCCAGT TGGAAA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG	INTRONIC CArG
rat mouse chicken	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG CTTCAAACTG	GGAGCCCAGT GGAGCCCAGT TGGAAA AA.CTGCTCA AAGCTGCTCC	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG	INTRONIC CArG
rat mouse chicken human rat mouse	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG CTTCAAACCG	GGAGCCCAGT GGAGCCCAGT TGGAAA AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG	INTRONIC CArG
rat mouse chicken human rat	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG CTTCAAACTG	GGAGCCCAGT GGAGCCCAGT TGGAAA AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG	INTRONIC CArG
rat mouse chicken human rat mouse	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG CTTCAAACCG	GGAGCCCAGT GGAGCCCAGT TGGAAA AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG	INTRONIC CArG
rat mouse chicken human rat mouse chicken	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG ATGGTTTC	AGCGGACGCT AGCAGAGGCT AACAGACGGT CTCCAAACCG CTTCAAACTG CTTCAAACCGTCTAAACC	GGAGCCCAGT GGAGCCCAGT TGGAAA  AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA ACTCTGTTCA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCATGTTAG	INTRONIC CArG
rat mouse chicken human rat mouse chicken	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG ATGGTTTC TAAACCACTG	AGCGGACGCT AGCAGAGGCT AACAGACGGT  CTCCAAACCG CTTCAAACTG CTTCAAACCGTCTAAACCC	GGAGCCCAGT GGAGCCCAGT TGGAAA  AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA ACTCTGTTCA  TTTCCGGGGA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCATGTTAG TTCATGTTAG CACAGTGACT	INTRONIC CArG
rat mouse chicken  human rat mouse chicken  human rat	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG ATGGTTTC  TAAACCACTG CAAACCACAG	AGCGGACGCT AGCAGAGGCT AACAGACGG CTTCAAACCG CTTCAAACCGTCTAAACC AGCTCGACTC CGGCAGTTTC	GGAGCCCAGT GGAGCCCAGT TGGAAA  AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA ACTCTGTTCA  TTTCCGGGGA .CTCTGGAAA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCATGTTAG CACAGTGACT CACACCGACG	INTRONIC CArG
rat mouse chicken human rat mouse chicken	GACCCGGGTG GCCTCGGGTGCCCCGGTG ACCTCGAACT  1101 TAATTAGGAA	CAGTTCCAAA CAGTTCCAAA CTGTTCCAAA ATGCTTTG ATGCTCCCTG ATGCTCCCCG ATGGTTTC  TAAACCACTG CAAACCACAG CAAACCACAG	AGCGGACGCT AGCAGAGGCT AACAGACGGT  CTCCAAACCG CTTCAAACTG CTTCAAACCGTCTAAACCC	GGAGCCCAGT GGAGCCCAGT TGGAAA  AA.CTGCTCA AAGCTGCTCC .AGCTGCTCA ACTCTGTTCA  TTTCCGGGGA .CTCTGGAAA .CTCTGGAAA	GTGTTTTACC GTGTTTTACC GTGTTTTACC GTGTTTTACC GCATATTTCC  1150 TTCAGGTTAG TTCAGGTTAG TTCAGGTTAG TTCATGTTAG CACAGTGACT CACACCGACG CACACAGACT	INTRONIC CArG

FIG.13D

	1201				1250
human		CAGTGCTCCT	TTTGGACATT	ATAACATTCT	TCCTAGATTT
rat	TCT	TCTC	TAGTGACGAC	GCTCCTTTCA	AAGCTTATTA
mouse	TCT	TCTC	CAGTGACAAG	CCTCCTTTCA	GAGCTTAATA
chicken	TCCCAAAAGT	TTAAGAAAGT	GCGAAAAATT	GCAACCTACT	TTCCTTTTCT
CHICKEH	Cochenal	17771070101			
	1251				1300
human		тттсттт	TTTTTTGGCC	AAGTAAAAAA	CATTTTTCTG
rat				GAAGTAGAAA	
mouse	AG ACAATT	TTTTCCTGGA	TATTTTTGAT	GAAATAGAAA	TACATCTTTA
chicken				CAACGTGGGA	
CHICKCH	danimin	7,07,77			
	1301				1350
human		GATGCTGAGG	GCCAGTCTCC	TTTTTCTGAG	TATAGTCAAC
rat	CTGAATTAG.			TAAAAAAAA	
mouse				TTTTAAAAAC	
chicken				ATCGAGAACT	
CHICKCH	CATAGOTTO	00,000,000			
					1400
	1351				1400
human	1351 CCCTCCTCCC	AAGCCATCAC	TGCCCAACAA	AACAGTTATT	
human rat	CCCTCCTCCC			AACAGTTATT TAAGTCATCC	AAAAATATCC
rat	CCCTCCTCCC	<b>AATATACTAA</b>	GGCACAACCT	TAAGTCATCC	AAAAATATCC TGCCCAAC
rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTTCTG	AATATACTAA AATATACTAA	GGCACAACCT GGCACAACCT	TAAGTCATCC TAAGCCATCT	AAAAATATCC TGCCCAAC TGCCCAACAA
rat	CCCTCCTCCC TATTTCTCTG TATTTTTCTG	AATATACTAA AATATACTAA	GGCACAACCT GGCACAACCT	TAAGTCATCC	AAAAATATCC TGCCCAAC TGCCCAACAA
rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTTCTG	AATATACTAA AATATACTAA	GGCACAACCT GGCACAACCT	TAAGTCATCC TAAGCCATCT	AAAAATATCC TGCCCAAC TGCCCAACAA
rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTTCTG AAGCAGTCCA 1401 CACATTCATG	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC	GGCACAACCT GGCACAACCT CTCGTGGCTG	TAAGTCATCC TAAGCCATCT TGAAGGGTCT CCATTTTC	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG 1450 AGAGACCATC
rat mouse chicken	CCCTCCTCCC TATTTCTCTG TATTTTTCTG AAGCAGTCCA 1401 CACATTCATG	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC	GGCACAACCT GGCACAACCT CTCGTGGCTG	TAAGTCATCC TAAGCCATCT TGAAGGGTCT	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG 1450 AGAGACCATC
rat mouse chicken human	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC TGGGTTATCC TGGGTTATCC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC	TAAGTCATCC TAAGCCATCT TGAAGGGTCTCCATTTTCCCGTTTTC	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG 1450 AGAGACCATC AAAGGGCATC AGAGGGTATC
rat mouse chicken human rat	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC TGGGTTATCC TGGGTTATCC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC	TAAGTCATCC TAAGCCATCT TGAAGGGTCTCCATTTTCCCGTTTTC	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG 1450 AGAGACCATC AAAGGGCATC AGAGGGTATC
rat mouse chicken human rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC TGGGTTATCC TGGGTTATCC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC	TAAGTCATCC TAAGCCATCT TGAAGGGTCTCCATTTTCCCGTTTTC	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG 1450 AGAGACCATC AAAGGGCATC AGAGGGTATC
rat mouse chicken human rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG GCGTTTGGGG  1451	AATATACTAA AATATACTAA CAGCTGCGTG GTAACCATAC TGGGTTATCC TGGGTTATCC GAGGCTGTCC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC CTCCTAGGTC	TAAGTCATCC TAAGCCATCT TGAAGGGTCTCCATTTTCCCGTTTTCCCATTTTC CATCTATGGT	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG  1450 AGAGACCATC AAAGGGCATC AGAGGGTATC GGAGGCTGAA
rat mouse chicken human rat mouse	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG GCGTTTGGGG  1451 CTAATTTGAA	AATATACTAA AATATACTAA CAGCTGCGTG  GTAACCATAC TGGGTTATCC TGGGTTATCC GAGGCTGTCC  ATGTTTTATC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC CTCCTAGGTC  CTCTTTTCAG	TAAGTCATCC TAAGCCATCT TGAAGGGTCT CCATTTTCCCGTTTTCCCATTTTC CATCTATGGT	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG  1450 AGAGACCATC AAAGGGCATC AGAGGGTATC GGAGGCTGAA  1500 TGGTTTGGAA
rat mouse chicken human rat mouse chicken	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG GCGTTTGGGG  1451 CTAATTTGAA CTAATTCCGA	AATATACTAA AATATACTAA CAGCTGCGTG  GTAACCATAC TGGGTTATCC TGGGTTATCC GAGGCTGTCC  ATGTTTTATC GTGGTTTATC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC TTCC CTCCTAGGTC  CTCTTTTCAG TCATTTGCAG	TAAGTCATCC TAAGCCATCT TGAAGGGTCTCCATTTTCCCGTTTTCCCATTTTC CATCTATGGT  CCCTTACTTT CCCGGATGCT	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG  1450 AGAGACCATC AAAGGGCATC AGAGGGTATC GGAGGCTGAA  1500 TGGTTTGGAA ATGTTTTGGA
rat mouse chicken human rat mouse chicken	CCCTCCTCCC TATTTCTCTG TATTTTCTG AAGCAGTCCA  1401 CACATTCATGAGTTTATG AAAGTTTATG GCGTTTGGGG  1451 CTAATTTGAA CTAATTCCAA CTAATTCCAA	AATATACTAA AATATACTAA CAGCTGCGTG  GTAACCATAC TGGGTTATCC TGGGTTATCC GAGGCTGTCC  ATGTTTTATC GTGGCTTATC GTGGCTTATC	GGCACAACCT GGCACAACCT CTCGTGGCTG  CTTC TTCC CTCCTAGGTC  CTCTTTTCAG TCATTTGCAG CCATTTGCAG	TAAGTCATCC TAAGCCATCT TGAAGGGTCT CCATTTTCCCGTTTTCCCATTTTC CATCTATGGT	AAAAATATCC TGCCCAAC TGCCCAACAA GCAGTGAGAG  1450 AGAGACCATC AAAGGGCATC AGAGGGTATC GGAGGCTGAA  1500 TGGTTTGGAA ATGTTTTGGA AAGTATGGAA

FIG.13E

human rat mouse chicken	CAGCA AACAGGCTTA	GCACATCCAT GGCTTCCTGT GTGGACACAC TCGACGTGCA	AGACTCTCTG AGACTCTCTG	CTGGTCCTTT CTGGTCCTTT	GCTGCTGGCT GGTGGTTTCT
	1551				1600
human		GATACCCCAG			
rat		aTCACC			
mouse		GTCACC			
chicken	TCGTTCGCGA	GGAGCCAGCT	GGGCTGCTGG	ATGACAGCCT	GTCTCGCTTT
	1601				1650
human		GCCTCTTTTC	TAAACCTTCT	TAATCTGCTC	
rat	'	TTCTGAGTCT			
mouse		TTCTGAGTCC			GAAGCTAAGT
chicken		ACATTGCAAT		• • • • •	
CHICKEH	ddcidiiAAc	ACATTGCAAT	ITATTAACCT	CIGCAIGGAA	a recade re
	1651				1700
human	CAAATCACAG	GAATGCCAAA	ATAATTCAGC	ATCTGGAAAG	GGAAAAGAAG
rat	ATAAATTCAG	TGTCTGAAAG	AAGAGGCAGA	GTAGAGAGAG	GAAAGAGCAA
mouse	ATAATT		CAGAGGCATA	GTGGAAAGAG	GAAAGAGCAA
chicken	CCAGCTAGTC	GAGTGATTCC	CTAACACACT	ATAAATTGTG	GGCAAATAGT
	1701				1750
human	GGTGGGAAAG	GAAAGGCAA	GCCATTCATG	AGTCCCATGT	CCATTCTTGC
rat	ACCAACCAAG	ATCCCATTTT	TCCGTTCTTG	TGAGGGGAAC	CCAGGCATTG
mouse		AAAGGGATTT			
chicken	TCTCCTCGAG	TGCTGGTATT	CGGGGCTTGT	TTCCGTAATT	GACTTTAATA
	1751				1800
human	AAGTGGAATC	CACACGTTGA	TATTTTATT	TCTAAGCCTG	GAGCAGTGTG
rat	AAGATTT	CACTCTGATT	TTGGAGGCAG	GGTTTGAAAG	GAAACCAAAA
mouse	AAGATTT	CACTCTGATC	TTGGGGACAG	GG.TTGAAAG	AAAACCAAGA
chicken	CAAACCCTTT	AAAGCATTTT	TATTACCCTT	GTTATCTTCC	TGTTGCCTGA

FIG.13F

,	1801	* * * OOTT * C *	A A C A A A C A C T	TOTOO	1850
human					. ATACTGAAA
rat				AGTCA	
mouse			TAGGGATAAT		.CTTGATGAT
chicken	GGAGAAAAAC	AATTICTGTT	TTAGTGAAGC	AGGGAGCCAG	CATAAATTAC
	1851				1900
human		ΔΩΤΩΔΤΔΩΤΔ	ΔΤΔΔΤΔΔΤGΔ	ΤΩΔΤΩΔΔΔΤΤ	AGTATTTATT
rat					cGAAGCTGTC
mouse	· · · · - · · · · · · · · · · · · · · ·				TGAAGCTCTC
chicken					TGATGATGGA
CITICKEII	THUIDAITE	IACAATICA	dell'All'Ade	radiria	TUATUATUUA
	1901				1950
human	GAGAACTTAG	<b>AGTATCTCTG</b>	CCACTATAAA	TTATTTAAA	CACTTTAAAA
rat	GAAAACACAA	GCTTAAATGT	CAATTACTTA	<b>AAATGCTATT</b>	TTAAGCC
mouse	AAAAATCCAA	GCTTAAATGT	CAATTCCTTA	<b>AATTGTTGTT</b>	AAAAACAACC
chicken	GCACACACTA	TGGACAGTTT	CAAAACACAT	GCTGTCCTTG	ATTGCATTTT
	1951				2000
human	AACCCAATCT	CTATAAGAAC	TCCATGAGGT	ATGTCCTGAT	ATCATTACTG
rat	CAAAAGAGTA	TGTGCTCAGT	TAGTCAAGGT	TAGAAGAAAT	ACCAGAACTC
mouse	CTAAGGGGTA	TATACTCAGT	TAATCAAGCT	TAGAAGAAGA	TACCAGAGCT
chicken	AAAGTCAGGA	TATCATCTTT	CTACGTGCAC	CAGTCTTGTC	AGGATGATAG
	2001				2050
human				TGTTAAATAA	
rat	AGGGGAGGAA	AAAATATtTA	TAAAACCTGA	TACTTGCCAC	TTCCAAAGAA
mouse	CAGGGAAGAA	AAAAAGTCTA	CAAAAGCTGA	TGCTTGCCAC	TTCAAAAGAA
chicken	AGGCAGGGA	CATCATACTG	AATCTGATGC	AAAGAGACCT	TTGTTTTTGC
	2051				2100
human	ACAGCTTTTA			AAATCCAGGC	
rat	CCCCAGTAAA			AGCTTTGGGG	GTGAGGGAGT
mouse	TCTAGTAACA		AGAATAAGTA		TA
chicken	AGCTGTCAGT	CCAGCAGTCT	TCTTTATCTC	CCACCTACGC	CTCAGTGGTG

FIG.13G

human rat mouse chicken	GGGGGGCAAT GAGGAACAAC	TCACTTTTA TCACATTTTA	TTACGGTCAT TTAAGGTCAT	AAATCTTCGT ATTAAGTTTC A.TCTGTCTC TCGCTGTCTC	TTTCTGTAAC TTTCTGTAAC
	2151				2200
human				TTCAACTCCT	
rat				ATCATCCTGT	
mouse				AGCAACCTGT	
chicken	TGATCTGTCT	TTCCATGCAG	CAGGACTGGA	ATAGTTCCAT	GGAGTACTTT
	2201		– . –		2250
human				GCCTTGACTT	
rat				TGTTGTAAaT	
mouse				TGTTATAACT	
chicken	GAATTATGTC	TGGTGCATAC	AGCCTTCCTG	CCTATCAGTT	CCTTTTATAC
	0051				0000
	2251	0040777747	OTTOTTTOCA	AACACTTATT	2300
human				AAGAGTTATT	
rat				ATATTTTTA	•
mouse				AGTTTCCATA	
chicken	CGCATTCTCT	GICTIACAGG	GIGGIICIGG	TACCTCACTT	IGHGHIH
	2301				2350
human		CAACTTTAG	CCCTTTCCCA	AGATGCAGGT	
		· <del>-</del> - · · · · · · · ·		TGCCTCAGCT	
rat	•			TGCCTCAGCT	_
mouse		TTCTTTTCTT			1.CCAAGIGC
chicken	TTTCAATTA		GCIGITICCA	1 AG	~~~~~~
	2351				2400
human		TGGCAGAACT	CCAACTC	TGTAATAG	
rat				GTCTTGATTC	
mouse				GCCTTGATTC	
chicken	~~~~~~	~~~~~~	~~~~~~~		~~~~~~~~

FIG.13H

	2401				2450
human	TCCCTACTTC	TCAGATGTTT	CCTTAAAAGA	ACTGCCTTTT	TTATATGGAT
rat	CCACACCAGC	ACCCAAGTCT	TCAGAGACAA	AAGATTTTTC	TTTTAAACAT
mouse	CCTCACCGGC	TCACAAGTCT	TTAGAGCCAA	AAGTTTTCTC	TTTTAAACAT
chicken	~~~~~	~~~~~			~~~~~~~
	2451				2500
human				AGAAGAAATT	
rat				TATGCTGCCC	
mouse	TTAATATGAG	TAAACATTTT	AACATTTTCA	AATTCTCACA	TGCTGCCCA.
chicken	~~~~~~~~~		~~~~~~	~~~~~~~	~~~~~~~
	0504				2550
,	2501	~~~	************	ACATAACTCT	2550
human				AGATAACTCT	
rat	AATCTACCTT	I I I GGGGGAA	AAIAIAIIII	ACCAAAAAA	AAAGTGACTT
mouse	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
chicken	~~~~~~	~~~~~~~			
	2551				2600
human	2551 CTCTTAACGG	AACATTTCGA	CCTAATTGTG	ATTAGAAAAG	
human rat	CTCTTAACGG			ATTAGAAAAG GATATAGATA	TGGAAGAGGT
human rat mouse	CTCTTAACGG TGGTTTGATA	TAGATAACAA	ACCTTGGTTT	ATTAGAAAAG GATATAGATA GGGGGGGGGG	TGGAAGAGGT ACAAACCTTT
rat	CTCTTAACGG TGGTTTGATA	TAGATAACAA	ACCTTGGTTT	GATATAGATA	TGGAAGAGGT ACAAACCTTT
rat mouse	CTCTTAACGG TGGTTTGATA	TAGATAACAA	ACCTTGGTTT	GATATAGATA	TGGAAGAGGT ACAAACCTTT
rat mouse	CTCTTAACGG TGGTTTGATA	TAGATAACAA	ACCTTGGTTT	GATATAGATA	TGGAAGAGGT ACAAACCTTT
rat mouse	CTCTTAACGG TGGTTTGATATTCCT	TAGATAACAA TGAAAATCTA ~~~~~~	ACCTTGGTTT CCTTTGGTGG	GATATAGATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT 2650
rat mouse chicken	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG	TAGATAACAA TGAAAATCTA 	ACCTTGGTTT CCTTTGGTGG 	GATATAGATA GGGGGGGGGG AGTACCT ATTCCCTATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT 2650 GATGTCTGGC GACCTGTGTT
rat mouse chicken	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG	TAGATAACAA TGAAAATCTA 	ACCTTGGTTT CCTTTGGTGG 	GATATAGATA GGGGGGGGGG AGTACCT	TGGAAGAGGT ACAAACCTTT GGGACTATAT 2650 GATGTCTGGC GACCTGTGTT
rat mouse chicken human rat	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG CTAGATAGTT	TAGATAACAA TGAAAATCTA 	ACCTTGGTTT CCTTTGGTGG 	GATATAGATA GGGGGGGGGG AGTACCT ATTCCCTATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT 2650 GATGTCTGGC GACCTGTGTT
rat mouse chicken human rat mouse	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG CTAGATAGTT ATATATA	TAGATAACAA TGAAAATCTA 	ACCTTGGTTT CCTTTGGTGG 	GATATAGATA GGGGGGGGGG AGTACCT ATTCCCTATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT  2650 GATGTCTGGC GACCTGTGTT GAACTCTGCT
rat mouse chicken human rat mouse chicken	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG CTAGATAGTT ATATATA 2651	TAGATAACAA TGAAAATCTA	ACCTTGGTTT CCTTTGGTGG  GTGGCTAAAG TGgTATCACT	GATATAGATA GGGGGGGGGG AGTACCT ATTCCCTATA TGTCCCTATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT  2650 GATGTCTGGC GACCTGTGTT GAACTCTGCT  2700
rat mouse chicken human rat mouse chicken	CTCTTAACGG TGGTTTGATATTCCT 2601 CTTGAACTGG CTAGATAGTT ATATATA 2651 TGGAGCTCTC	TAGATAACAA TGAAAATCTA AAGCCAAGGG CTTTAACATG CTCTAATGCC	ACCTTGGTTT CCTTTGGTGG GTGGCTAAAG TGgTATCACT CTGTGTGCCC	GATATAGATA GGGGGGGGG  AGTACCT ATTCCCTATA TGTCCCTATA TGTCCCTATA TTTGAGCAATC	TGGAAGAGGT ACAAACCTTT GGGACTATAT  2650 GATGTCTGGC GACCTGTGTT GAACTCTGCT  2700 ACTTCCTGAT
rat mouse chicken human rat mouse chicken human rat	CTCTTAACGG TGGTTTGATATTCCT  2601 CTTGAACTGG CTAGATAGTT ATATATA  2651 TGGAGCTCTC CTCCACTCAG	TAGATAACAA TGAAAATCTA AAGCCAAGGG CTTTAACATG CTCTAATGCC GACCTCTCAT	ACCTTGGTTT CCTTTGGTGG  GTGGCTAAAG TGgTATCACT  CTGTGTGCCC CTGTGCTCTG	GATATAGATA GGGGGGGGG  AGTACCT ATTCCCTATA TGTCCCTATA TGTCCCTATA TGTCCCTATA TGTCCCTATA TGTCCCTATA	TGGAAGAGGT ACAAACCTTT GGGACTATAT  2650 GATGTCTGGC GACCTGTGTT GAACTCTGCT  2700 ACTTCCTGAT ACACACTAAT
rat mouse chicken human rat mouse chicken	CTCTTAACGG TGGTTTGATATTCCT  2601 CTTGAACTGG CTAGATAGTT ATATATA  2651 TGGAGCTCTC CTCCACTCAG	TAGATAACAA TGAAAATCTA AAGCCAAGGG CTTTAACATG CTCTAATGCC GACCTCTCAT	ACCTTGGTTT CCTTTGGTGG  GTGGCTAAAG TGgTATCACT  CTGTGTGCCC CTGTGCTCTG	GATATAGATA GGGGGGGGG  AGTACCT ATTCCCTATA TGTCCCTATA TGTCCCTATA TTTGAGCAATC	TGGAAGAGGT ACAAACCTTT GGGACTATAT  2650 GATGTCTGGC GACCTGTGTT GAACTCTGCT  2700 ACTTCCTGAT ACACACTAAT

FIG.131

	2701				2750
human	TTTCTTATTT	GTGAAAAT	GAGAGCATTG	GATGAAAATG	TCCTCTAATA
rat	GCTCTGCCCT	GCTTGAGAGT	GgTAAAAGAG	${\tt CCTGTGA.GC}$	TCCTGCTCTT
mouse	GCTCTGACCA	GCTTGAGAGT	GTTATAAGAG	CCTGTGACAC	TCCCGCTCTT
chicken				~~~~~~	
	2751				2800
human		TTCTCAAATT			
rat		GCTTGTGGTG			
mouse	TGTGCTGAGG	ACTTGTGGTG	TTAACCTGGA	AGTCAGGGTT	TEGGATEATE
chicken	~~~~~				~~~~~~~
	2801				2850
human		AAGGATCCAA	GTATAAGATC	CAAGTATAAA	
rat		CAGTCTGGTG			
mouse		CAGCCTAGTG			
chicken	~~~~~~	~~~~~~	~~~~~~		~~~~~~
	2851				2900
human	~~~~~~			~~~~~~	
human rat	AGATCTGGGG	AGAGCGTCCA			CCAAGAACCC
rat mouse	AGATCTGGGG	AGAGCGTCCA AGAGCCTCCA			CCAAGAACCC
rat	AGATCTGGGG				CCAAGAACCC
rat mouse	AGATCTGGGG AGAACTGTGG				CCAAGAACCC CCAAGAACCC
rat mouse chicken	AGATCTGGGG				CCAAGAACCC
rat mouse chicken human	AGATCTGGGG AGAACTGTGG —————————————————————————————————	AGAGCCTCCA	GCTAAAATAA	CACAACAGGA	CCAAGAACCC CCAAGAACCC
rat mouse chicken human rat	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT	AGAGCCTCCA TGGGAGTGAC	GCTAAAATAA CGTAGGCTCC	CACAACAGGA GGCCAAACGC	CCAAGAACCC CCAAGAACCC 2950
rat mouse chicken human rat mouse	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT	AGAGCCTCCA	GCTAAAATAA CGTAGGCTCC	CACAACAGGA GGCCAAACGC	CCAAGAACCC CCAAGAACCC 2950
rat mouse chicken human rat	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT	AGAGCCTCCA TGGGAGTGAC	GCTAAAATAA CGTAGGCTCC	CACAACAGGA GGCCAAACGC	CCAAGAACCC CCAAGAACCC 2950
rat mouse chicken human rat mouse	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT	AGAGCCTCCA TGGGAGTGAC	GCTAAAATAA CGTAGGCTCC	CACAACAGGA GGCCAAACGC	CCAAGAACCC CCAAGAACCC 2950
rat mouse chicken human rat mouse	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT TGTCTGTGGG	AGAGCCTCCA TGGGAGTGAC	GCTAAAATAA CGTAGGCTCC	CACAACAGGA GGCCAAACGC	CCAAGAACCC CCAAGAACCC 2950 TCTGCGCTAC
rat mouse chicken human rat mouse chicken	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT TGTCTGTGGG  2951	AGAGCCTCCA TGGGAGTGAC TGGGAGTGAC	GCTAAAATAA	CACAACAGGA  GGCCAAACGC AGCCAAATGC	CCAAGAACCC CCAAGAACCC  2950  TCTGCGCTAC  3000
rat mouse chicken human rat mouse chicken	AGATCTGGGG AGAACTGTGG  2901 TGGTTGTGGT TGTCTGTGGG  2951	AGAGCCTCCA TGGGAGTGAC	GCTAAAATAA	CACAACAGGA  GGCCAAACGC AGCCAAATGC	CCAAGAACCC CCAAGAACCC  2950  TCTGCGCTAC  3000

FIG.13J